

SCREENING SITE INSPECTION REPORT  
FOR  
BEMIS COMPANY, INC.  
PEORIA, ILLINOIS  
U.S. EPA ID: ILD006215727  
SS ID: NONE  
TDD: F05-8812-011  
PAN: FIL0585SA

AUGUST 3, 1990

EPA Region 5 Records Ctr.



293430



**ecology and environment, inc.**

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## 1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Bemis Company, Inc., site under contract number 68-01-7347.

Circumstances surrounding the initial discovery of the site are unknown. The site was originally identified in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Larry Winner of the Illinois Environmental Protection Agency (IEPA). The PA is dated January 2, 1985.

FIT prepared an SSI work plan for the Bemis Company, Inc., site under technical directive document (TDD) F05-8706-016, issued on June 3, 1987. The SSI work plan was approved by U.S. EPA on December 8, 1988. The SSI of the Bemis Company, Inc., site was conducted on March 28, 1989, under TDD F05-8812-011, issued on December 22, 1988.

The FIT SSI included interviews with site representatives, a reconnaissance inspection of the site, and the collection of five soil samples, three sediment samples, and two process well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step.

A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

## 2. SITE BACKGROUND

### 2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation and the site representative interviews.

### 2.2 SITE DESCRIPTION

The Bemis Company, Inc., site is an active facility that contains a multi-wall bag converting plant, a paper mill, and a coating mill. The multi-wall bag converting plant is owned and operated by Bemis Company, Inc., and the paper and coating mills are owned and operated by Ivex of Peoria, Inc.

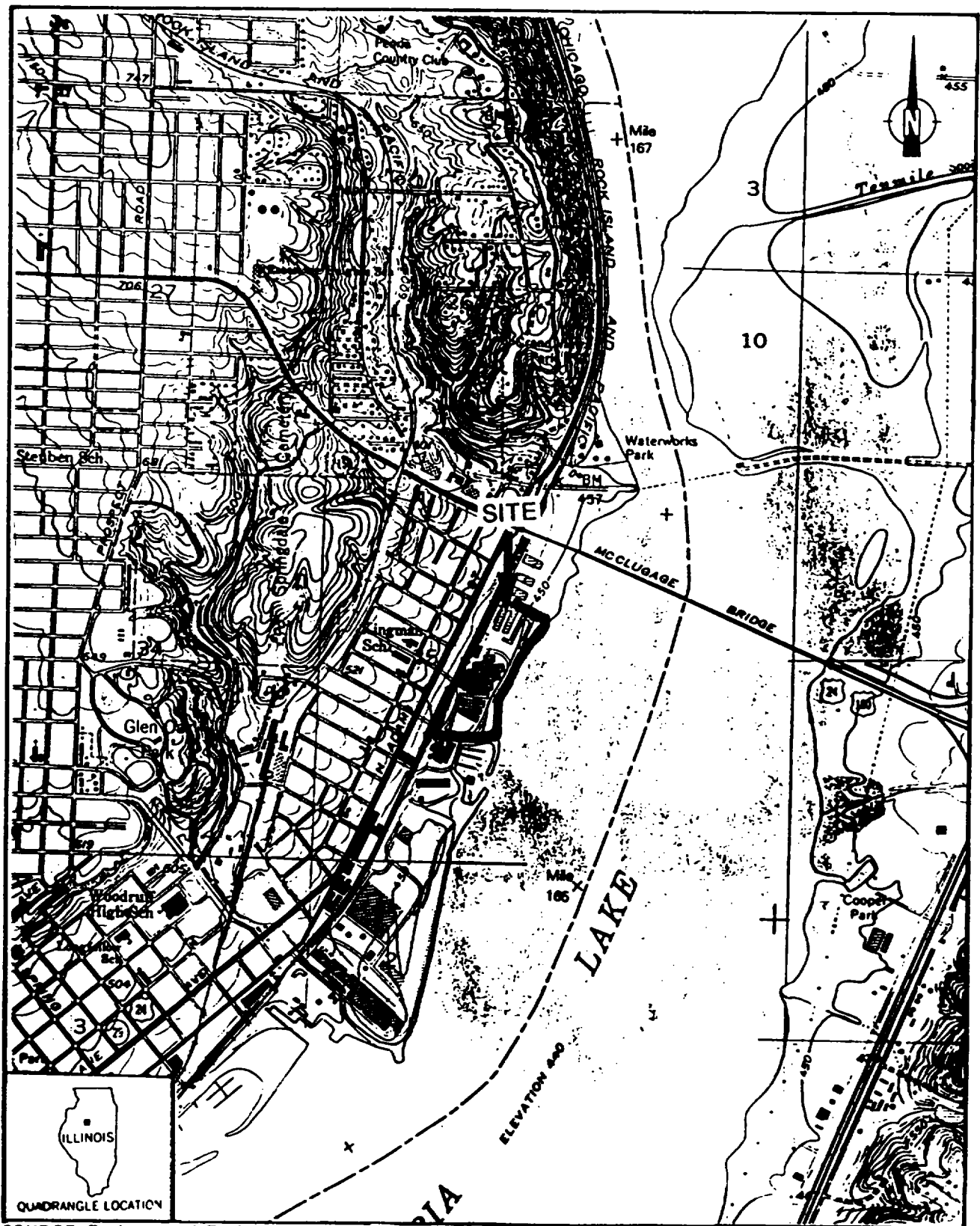
The site is located in an industrial area along the Illinois River in the city of Peoria, Illinois (sec. 35, T.9N., R.8E.), at the foot of Sloan Street. The entire site encompasses 47.4 acres; Bemis Company owns 13.7 acres and Ivex, 33.7 acres (see Figure 2-1). A 4-mile radius map of the area of the site is provided in Appendix A.

### 2.3 SITE HISTORY

The site facility began operations in approximately 1910 as Bemis Brothers Bag Company (Miller 1989). Operations included a paper mill, a coating mill, and a multi-wall bag converting plant.

In the past, power requirements were satisfied by the use of a coal-fired boiler, with an oil-fired boiler used as a standby (Bemis Company, Inc., vs. IEPA 1982).

In May 1973, IEPA granted Bemis Company an operating permit for both boilers at the Peoria facility. The permit expired in May 1977.



SOURCE: Ecology and Environment, Inc. 1990; BASE MAP: USGS, Peoria East, Illinois Quadrangle, 7.5 Minute Series, 1979.



FIGURE 2-1 SITE LOCATION

IEPA received a renewal application for the boilers in June 1977. IEPA denied the permit application in August 1977, citing violations by Bemis Company concerning sulfur dioxide emissions (Bemis Company, Inc., vs. IEPA 1982).

An IEPA investigation in June 1973 revealed that Bemis Company was landfilling a portion of its property with fly ash collected from dry collectors. Fly ash was mixed with water to form a slurry and pumped into a 40,000-cubic-foot pit located in the north-northeast portion of the facility property (Toberman 1973). At the time of the IEPA inspection, Bemis Company was producing approximately 20,000 cubic feet of fly ash annually.

The northern section of the site property was also used to pump noncontact cooling water into a canal in an effort to recharge groundwater in the area. The facility contains two process wells capable of pumping 1,000 gallons per minute (Rohman 1989).

In November 1981, IEPA contacted Bemis Company regarding generator waste type and quantity information for the site facility. The facility was generating tetrachloroethylene and 1,1,1-trichloroethane wastes that were used as cleaning solvents in treating paper bags. Approximately 1,760 gallons per year of solvents were transported and disposed of by Waste Management of Peoria (Jones 1981).

On September 26, 1984, Bemis Company obtained a National Pollutant Discharge Elimination System (NPDES) permit (IL0035611) from IEPA to discharge noncontact cooling water to the Illinois River. The permit had an expiration date of July 31, 1989.

In December 1985, Bemis Company sold its paper mill and coating mill to Petratex Paper Company, Inc. (Rohman 1989). An IEPA letter dated February 18, 1986, requested the transfer of permits from Bemis Company to Petratex Paper Company. The permits included one for disposal of fly ash, NPDES permit no. IL0035611, a permit for storm water runoff, a permit for a fuel oil tank (permit no. 143065AAR), and Boiler Operating permit no. 73010712 (Rohman 1986).

Petratex Paper Company went bankrupt in approximately autumn 1987. The paper mill and coating mill were shut down until January 1988, when Ivex purchased the mills and commenced operations (Rohman 1989).

Currently, Bemis Company owns and operates the multi-wall bag converting plant at the site. The plant contains a plate-making department that does printing with water-base ink, and a converting operation that assembles the bags for bulky products such as dog food. Bemis Company currently employs approximately 200 workers.

Bemis Company at present uses an adhesive, Urac 180, which contains formaldehyde, and inks containing isopropyl alcohol. Bemis Company is now attempting to obtain an air permit for use of a lacquer overvarnish on bags (Miller 1989).

Tetrachloroethylene is no longer being used as a cleaner at the site. The last shipment of spent tetrachloroethylene was sent to Avganic Industries, Inc. (U.S. EPA ID: WID000808824), of Cottage Grove, Wisconsin. The shipment was made by Valley Chemical and Solvent (U.S. EPA ID: ILD025733866) in August 1986.

Bemis Company disposed of approximately 3,500 gallons of flammable waste ink in 1988 (Miller 1989). The ink was transported by Chemical Services Corporation (U.S. EPA ID: ILD980701106) and received by Industrial Fuel and Resources (U.S. EPA ID: IND980590947) of South Bend, Indiana.

Ivex currently owns and operates the paper mill and coating mill at the site. In these operations, waste paper is purchased and recycled into paper that is used for industrial packaging. Ivex employs approximately 55 workers.

Ivex uses corrosive chemicals including muriatic acid for cleaning purposes. Other materials used in production processes include aluminum sulfate, polymers, chemical coaters, FDA-approved dyes, and chemicals for descalers and slime control.

All wastewater contains fiber and dye residue and is discharged into the Peoria Sanitary District Sewer System. The sanitary district monitors the water. Noncontact cooling water is discharged to the Illinois River (Rohman 1989).

Ivex maintains a large oil tank of unknown volume on its portion of the site property. The tank is registered with the state Fire Marshall. Ivex is currently working with IEPA on plans for cleaning and removing the tank (Rohman 1989).



Larry Rohman of Ivex stressed that, although Bemis Company and Petratex Paper Company used the coal boiler in the past, Ivex has never burned coal. At present, both Ivex and Bemis Company use natural gas as fuel.

The site has experienced problems in the past with flooding from the Illinois River. Water has come high enough to flood the basements of some buildings at Bemis Company to a depth of 7 feet. Bemis Company has a dike approximately 6 feet high running the length of its eastern border. The last flood was around 1985 (Miller 1989).

At present, no regulatory actions are being undertaken by federal or state agencies at the Bemis Company, Inc., site.

### **3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS**

#### **3.1 INTRODUCTION**

This section outlines procedures and observations of the SSI of the Bemis Company, Inc., site. Individual subsections address the site representative interviews, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted with minor alterations from the U.S. EPA-approved work plan. The alterations included the sampling of two on-site process wells.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Bemis Company, Inc., site is provided in Appendix B.

#### **3.2 SITE REPRESENTATIVE INTERVIEWS**

Daniel Sullivan, FIT team leader, conducted interviews with Rolla Miller, Plant Engineer, Bemis Company, Inc., and Larry Rohman, Manager of Engineering, Ivex of Peoria, Inc. Two separate interviews were held at the request of Larry Rohman. The interview with Rolla Miller was conducted March 27, 1989, at 1:30 p.m. in the Bemis Company office on-site. The interview with Larry Rohman was conducted March 27, 1989, at 3:00 p.m. in the office of Larry Rohman on-site. Also present at both interviews was Stan Senger of FIT. The interviews were conducted to gather information that would aid FIT in conducting SSI activities.

#### **3.3 RECONNAISSANCE INSPECTION**

On March 28, 1989, FIT conducted a reconnaissance inspection of the Bemis Company, Inc., site and the surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines.

The reconnaissance inspection included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined exact sampling locations during the reconnaissance inspection.

The reconnaissance inspection was begun at approximately 10:15 a.m. Larry Rohman accompanied FIT during a portion of the reconnaissance, when FIT was on Ivex property.

Reconnaissance Inspection Observations. The Bemis Company, Inc., site is located in an industrial area of Peoria, Illinois (see Figure 3-1 for locations of site features). Photographs of the site are provided in Appendix C. The site encompasses approximately 47.4 acres.

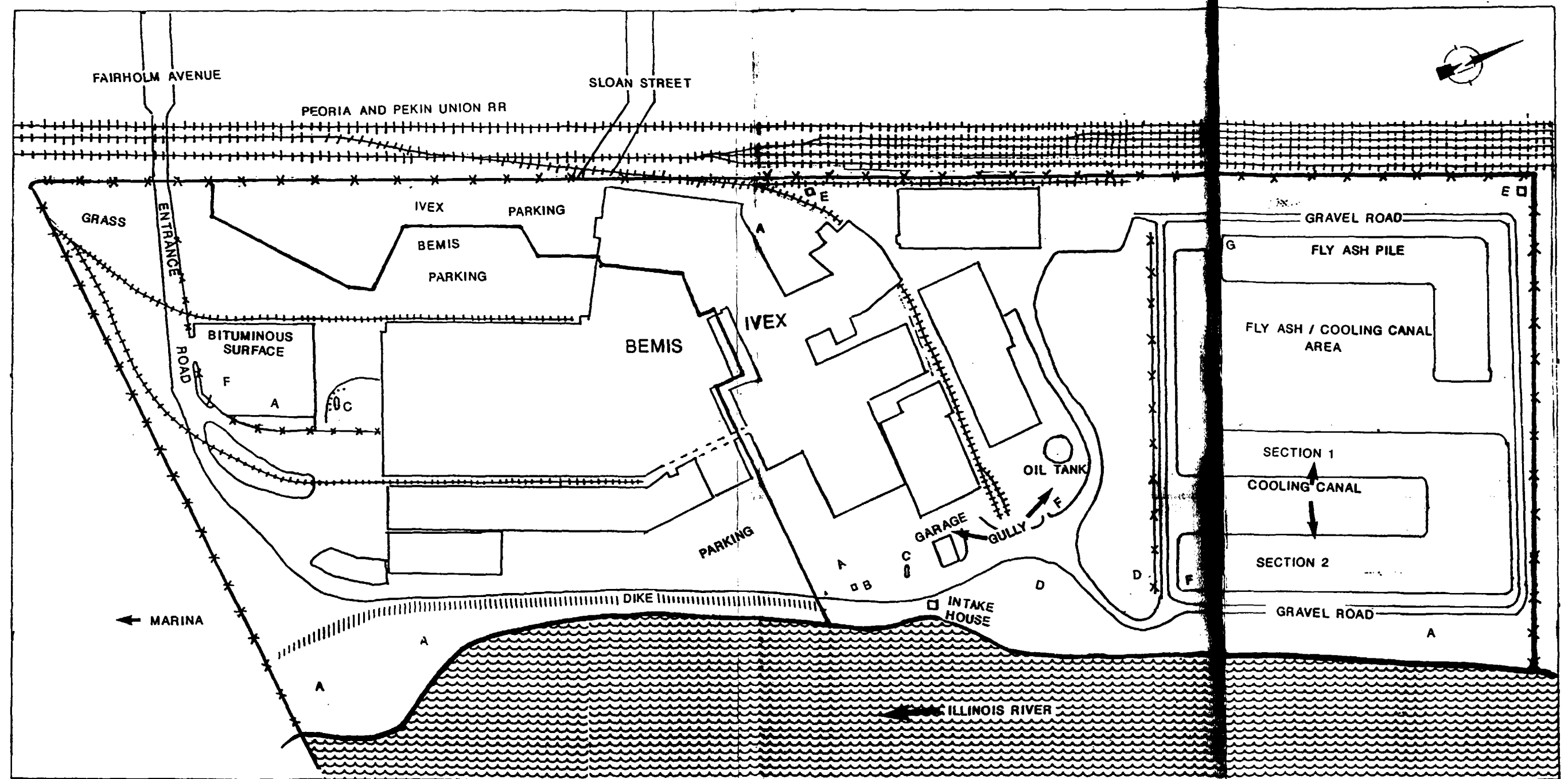
The site property is bordered to the east by the Illinois River and to the west by railroad tracks of the Peoria and Pekin Union Railway Company. To the south is a private marina. To the north is a vacant field of unknown use. Land use surrounding the site is primarily industrial, commercial, and residential.

Bemis Company owns approximately 13.7 acres on the south side of the site, while Ivex owns approximately 33.7 acres, which includes the Ivex facility itself and the fly ash/cooling canal area, located on the north side of the site. The Ivex property also includes a parking lot on the south side of the site near the west border.

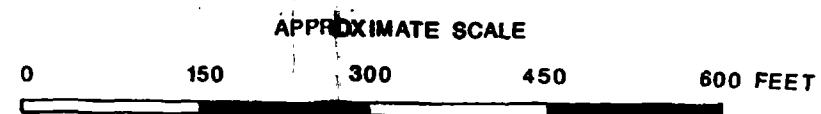
The reconnaissance inspection commenced at the southern border of the Ivex property on the Illinois River side. Behind the southernmost building on the Ivex property approximately 10 to 15 barrels were observed. The barrels were labeled "National Starch and Chemical-Resyn 33-4038." The barrels were resting on wooden pallets and the ground surface surrounding the barrels was concrete-paved. The barrels had stains on the sides but no active leakage was observed.

Immediately east of the barrels a pit that was covered by a steel grate was observed. Water was flowing inside the pit, moving in the direction of the Illinois River. Examination of the Illinois River shoreline indicated a discharge flow of the water from an underground pipe into the river.

North of the steel grate, a small propane tank, an intake house, and a metal garage were observed. A small gully was observed behind the



SOURCE: Ecology and Environment, Inc., 1990.



LEGEND

A BARRELS	D METAL DEBRIS	G PONDED WATER
B STEEL GRATE	E WELL HOUSE	X-X FENCE
C PROPANE TANK	F WOODEN PALLETS	

FIGURE 3-1 SITE FEATURES

metal garage. The gully sloped in a northerly direction toward a gravel road.

Farther north, outside a brick and metal storage building, a large oil tank was observed. Ivex is currently making plans for removal of the tank (Rohman 1989). A small gully was observed near the oil tank. The gully sloped in an easterly direction from the storage building toward the river.

Approximately 100 feet north of the oil tank was a fence running east-west separating the active Ivex facility from the fly ash/cooling canal area.

Along the southern side of the fence, large piles of metal debris were observed. A pile of metal debris was also observed paralleling the Illinois River on the east border of the facility from the three-sided garage to the fence.

A gravel road connects the active facility to the fly ash/cooling canal area on the northern portion of the site. The road separates the cooling canal from the river. The cooling canal is dry and no longer used. The western portion of the cooling canal is known as section 1, and the eastern portion is known as section 2. Large piles of wooden platforms were observed in the southeast corner of section 2 of the cooling canal. Section 1 appeared to be free of debris (see Figure 3-1). Near the north border of the site, a rusted barrel was observed in some tangled underbrush between the gravel road and the river.

The fly ash settlement pond, located west of the cooling canal, was filled with fly ash to an estimated height of approximately 40 to 50 feet. This pile was surrounded by tall grasses. In the southwest corner of the fly ash settlement pond, a pool of water approximately 6 inches deep was observed. The pool formed a small ditch 3 to 4 feet wide, which wound its way toward the fly ash pile. The source of the pooled water may have been a basement pump.

In the northwest corner of the fly ash/cooling canal area a well house was observed. The well is one of two wells Ivex uses to obtain process water.

The gravel road completely encircles the fly ash/cooling canal area. A fence runs along the northern border, just north of the road.

On the west side of the fly ash/cooling canal area, the ground slopes upward from the road; a fence is located at the top of the slope.

The second well house was observed near a group of brick buildings on the west side of the Ivex facility. Near the well house, a set of railroad tracks enters the facility from the west. A break in the west border fencing was observed where the railroad tracks enter the Ivex facility, but no gate was observed.

Approximately 30 barrels were observed outside one of the brick buildings on the Ivex portion of the site. Some barrels were labeled muriatic acid (also known as hydrochloric acid) and some, sulfuric acid.

The reconnaissance inspection of Bemis Company's portion of the site property commenced in the parking lot west of the Bemis Company buildings.

The entrance to the Bemis Company plant is from Fairholm Avenue at the southwest corner of the site. The entrance contains a gate that was open at the time of the SSI. A railroad track enters the site from the south and splits into two tracks that enter different parts of the Bemis Company plant. The entrance road branches off toward the manufacturing area and parking lot and toward the back of the building. All land south of the entrance road at the site was observed to be covered by grass. A fence was observed on the south border of the site.

The area between the entrance road and the manufacturing area was covered with a bituminous surface. The southeast side of the bituminous area contained large stacks of wooden pallets.

Barrels were observed on the Bemis Company property on the bituminous surface, north of the wooden pallets. The barrels were labeled "Latex Emulsion (containing vinyl acetate)," "Film Grip 42 33-4042," and "Synthetic Resin Emulsion." The area contained approximately 62 barrels. None of the barrels was observed to be leaking, but a grassy area next to the barrels was visibly stained. A propane tank was observed north of the barrels, and guard posts were present in front of the tank.

A dike, which paralleled the Illinois River, was observed on Bemis Company property. The dike was east of, and approximately 6 feet above, the road that runs along the back of the Bemis Company facility.

Two barrels were observed on Bemis Company property between the dike and the river. One was near the south fence and was labeled "Shell-GP Cling Oil"; the other was in a tree approximately 100 yards north of the southern site boundary. No readable markings were on the second barrel.

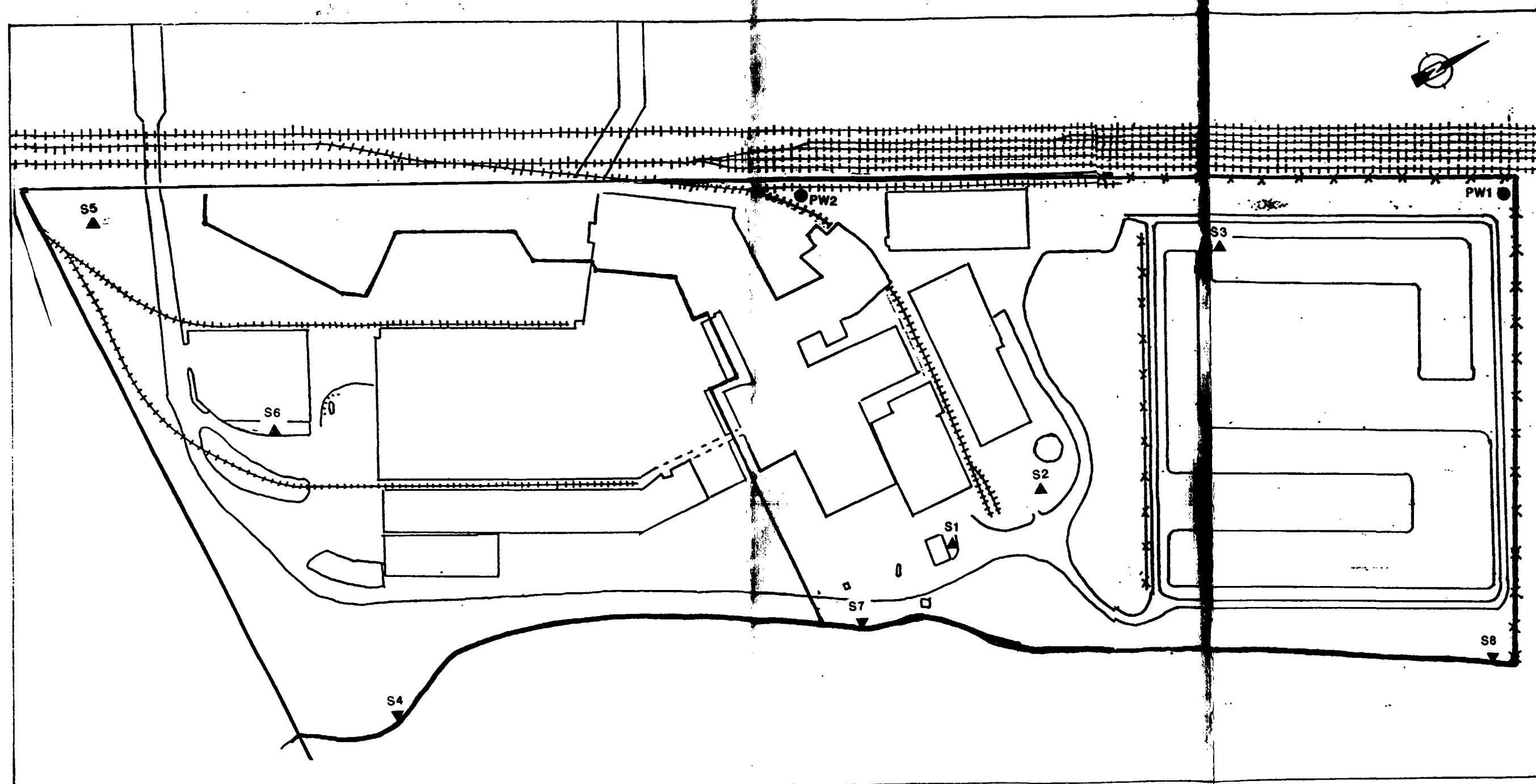
### 3.4 SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine levels of U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL) analytes present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

On March 28, 1989, FIT collected five surface soil samples, three sediment samples, and two process well samples at the Bemis Company, Inc., site. A portion of each sample was offered to site representatives, but was declined.

Soil/Sediment Sampling Procedures. Surface soil sample S1 was collected from the gully behind a garage with one open side in an area of possible drainage (see Figure 3-2 for soil/sediment sampling locations). Surface soil sample S2 was collected from the gully near the oil tank in an area of possible drainage. Surface soil sample S3 was collected from near the pool of water next to the fly ash pile.

Sediment sample S4 was collected from the shore of the Illinois River near the southern (downstream) boundary of the site. Surface soil sample S5 was collected from the grassy area south of the entrance to Bemis Company as a potential background soil sample. The background soil sample was collected to determine the representative chemical content of the soil in the area surrounding the site. This location was chosen because the ground surface appeared to be undisturbed. Surface soil sample S6 was collected from the stained grassy area near the barrels on the Bemis Company property. Sediment sample S7 was collected from the shore of the Illinois River where water was observed draining from an underground pipe. Sediment sample S8 was collected near the northern property boundary of the site as a potential background sediment sample.



SOURCE: Ecology and Environment, Inc., 1990.

APPROXIMATE SCALE  
0 150 300 450 600 FEET

#### LEGEND

- ▲ SOIL
- ▼ SEDIMENT
- PROCESS WELL

FIGURE 3-2 SOIL, SEDIMENT, AND PROCESS WELL SAMPLING LOCATIONS



Hand trowels and spoons were used to collect all soil and sediment samples. With the hand trowel, a hole 4 to 5 inches deep was excavated. Volatile organic analysis (VOA) sample bottles were filled directly from the hole. The remaining sample medium was then transferred to a stainless steel bowl using the trowel. Samples were mixed in the bowl and then placed in sample bottles using the spoon or the trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil and sediment samples. The hand trowels, stainless steel bowls, and spoons were scrubbed with a solution of Alconox detergent and distilled water, and triple-rinsed with distilled water before the collection of each sample (E & E 1987). All soil and sediment samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, samples S1, S2, S3, S4, S5, S6, S7, and S8 were analyzed under the Contract Laboratory Program (CLP) for TCL compounds by Environmental Control Technology of Ann Arbor, Michigan, and for TAL analytes by Enseco/Rocky Mountain Analytical of Arvada, Colorado.

Process Well Sampling Procedures. Process well samples (indicated as PW1 and PW2) were collected to determine local groundwater characteristics.

Process well sample PW1 was collected from the well located in the northwest corner of the fly ash/cooling canal area (see Figure 3-2 for process well sampling locations). According to writing on the wall inside the wellhouse, the well was 58 feet, 8 inches deep. Sample PW2 was collected from the well located among the Ivex buildings. The well was estimated to be approximately 50 to 60 feet deep (Rohman 1989).

A distilled water field blank and a duplicate process well sample were collected in accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements. The duplicate sample was collected at location PW1.

Process well samples PW1 and PW2 were collected from outlets that bypassed water treatment systems. All process well samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, process well samples were analyzed for TCL compounds by Southwest Labs of Oklahoma of Broken Arrow, Oklahoma, and for TAL analytes by Enseco/Rocky Mountain Analytical of Arvada, Colorado.

## 4. ANALYTICAL RESULTS

### 4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil/sediment and process well samples for TCL compounds and TAL analytes.

### 4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Soil/Sediment Results. Chemical analysis of FIT-collected soil/sediment samples revealed the presence of TAL analytes, including common soil constituents and heavy metals, and the presence of TCL compounds including aromatics, common laboratory artifacts, pesticides, poly-aromatic hydrocarbons, and polychlorinated biphenyls (see Table 4-1 for complete soil/sediment sample chemical analysis results).

Process Well Results. Chemical analysis of FIT-collected process well samples revealed the presence of TAL analytes, including heavy metals and analytes commonly found in area substrate, and the presence of TCL compounds including halogenated hydrocarbons and common laboratory artifacts (see Table 4-2 for complete process well sample chemical analysis results).

U.S. EPA CLP quantitation/detection limits, used in the analysis of FIT-collected soil/sediment and process well samples, are provided in Appendix D.

Table 4-1  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED SOIL/SEDIMENT SAMPLES

Sample Collection Information and Parameters	S1	S2	S3	S4	Sample Number	S5	S6	S7	S8
Date	3/28/89	3/28/89	3/28/89	3/28/89		3/28/89	3/28/89	3/28/89	3/28/89
Time	1300	1310	1325	1300		1320	1330	1425	1445
CLP Organic Traffic Report Number	EDB00	EDB01	EDB02	EDB03		EDB04	EDB05	EDB06	EDB07
CLP Inorganic Traffic Report Number	MEDL40	MEDL41	MEDL42	MEDL43		MEDL44	MEDL45	MEDL46	MEDL47
<u>Compound Detected</u> (values in µg/kg)									
<u>Volatile Organics</u>									
methylene chloride	--	3J	5J	4J		5J	--	--	12J
acetone	8J	34J	11J	11J		15J	--	--	19J
<u>Semivolatile Organics</u>									
phenol	--	380J	--	--		--	--	--	--
naphthalene	180J	180J	--	--		230J	1,200	--	--
2-methylnaphthalene	180J	330J	220J	--		290J	1,300	--	--
acenaphthylene	--	--	--	--		300J	180J	--	--
acenaphthene	150J	140J	--	--		200J	300J	--	--
dibenzofuran	120J	120J	--	--		240J	730J	--	--
fluorene	110J	--	--	--		220J	340J	89J	--
phenanthrene	2,200	2,600	400J	810J		4,100	6,100	1,100	--
anthracene	200J	420J	--	150J		810J	750J	140J	--
fluoranthene	5,700	5,100	--	1,500		6,200	7,200	1,600	--
pyrene	3,800	3,900	230J	1,100J		4,800	5,200	1,400	--
butylbenzylphthalate	190J	130J	--	--		--	--	--	--
benzo(a)anthracene	2,600	2,100	--	460J		1,900	3,000	630J	--
chrysene	3,000J	2,300J	--	660J		3,000J	3,500J	650J	--
benzo(b)fluoranthene	5,300	3,300	--	690J		4,200	5,400	910	--
benzo(a)pyrene	2,600	1,700	--	370J		1,900	3,000	610J	--
indeno(1,2,3-cd)pyrene	3,600	1,800	--	400J		1,800	2,600	610J	--
dibenz(a,h)anthracene	1,400	520J	--	210J		670J	730J	84J	--
benzo(g,h,i)perylene	3,500	1,400	--	350J		1,500	2,000	580J	--
<u>Pesticides/PCBs</u>									
Heptachlor	--	--	--	--		1.8J	--	--	--
Methoxychlor (Mariste)	--	62J	--	--		95J	--	--	--
Aroclor 1260	60,000C	2,700	--	--		--	--	--	--
<u>Analyte Detected</u> (values in mg/kg)									
aluminum	5,830	11,900	9,610	3,820		6,400	6,360	3,210	5,110
arsenic	22.1JAN	20.1JAN	17.2JAN	1.6JBAN		9.9JAN	22.1JAN	5.5JAN	5.1JAN
barium	81.5	136	409	102		149	107	41.5B	38.4B
beryllium	0.69B	4	2.2	0.47B		0.81B	0.85B	0.55	0.35B
cadmium	1.9	9.7	94	1.9		2.2	3.9	1.4	--

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number							
	S1	S2	S3	S4	S5	S6	S7	S8
calcium	49,000JA	51,100JA	131,000JA	33,500JA	7,030JA	66,200JA	30,100JA	15,800JA
chromium	18.2	28.1	21.5	17.8	18.8	23.6	22.7	10.3
cobalt	7.1B	7.9B	14.4B	3.5B	10.2B	7.8B	7.2B	8.2B
copper	53.6	45.3	78.7	35.1	61	48.3	37.9	17.1
iron	18,700	30,600	111,000	20,000	33,900	22,100	34,900	11,200
lead	165JN	165JN	44.7JA	287JN	199JN	183.JN	25.1JA	12.5JA
magnesium	24,900JA	8,560JA	10,200JA	7,600JA	2,700JA	11,300JA	9,450JA	9,040JA
manganese	556	780	4,790	273	897	651	422	131
mercury	0.2A	0.4A	--	--	0.3A	--	--	--
nickel	18.6	22.3	49	15.4	19.7	21.3	19.7	18.1
potassium	750B	2,180	680B	404B	962B	773B	451B	701B
selenium	--	--	--	--	0.57JBW	0.46JBW	--	--
silver	--	--	--	1.1JB	--	--	--	--
sodium	--	--	--	473B	--	--	--	--
thallium	--	0.92JBW	--	--	--	--	--	--
vanadium	20.7	46.9	40.6	11.6JB	27.3	18.9	15.1	17.4
zinc	319JEN	785JEN	10,100JEN	154JEN	328JEN	263JEN	225JEN	65.2JEN

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides $\geq 10$ ng/ $\mu$ L in the final extract shall be confirmed by GC/MS.	Compound was confirmed by GC/MS and is quantitative. Use pesticide/PCB listed values.
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
A	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is $< 50\%$ of spike absorbance.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1990.

Table 4-2  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED PROCESS WELL SAMPLES

Sample Collection Information and Parameters		Sample Number		
	PW1	Duplicate	PW2	Blank
Date	3/28/89	3/28/89	3/28/89	3/28/89
Time	1335	1335	1230	1030
CLP Organic Traffic Report Number	EDB23	EDB25	EDB24	EZ840
CLP Inorganic Traffic Report Number	MEDL63	MEDL65	MEDL64	MECK52
Temperature (°C)	18	18	19	20
Specific Conductivity (µmhos/cm)	900	900	1,000	0
pH	6.47	6.47	6.30	7.03
<u>Compound Detected</u>				
(values in µg/L)				
<u>Volatile Organics</u>				
chloroform	2J	--	--	--
trichloroethene	13	10	7	--
<u>Semivolatile Organics</u>				
bis(2-ethylhexyl)phthalate	--	24	--	--
<u>Analyte Detected</u>				
(values in µg/L)				
aluminum	21.3B	--	--	--
barium	90.3B	90.7B	95.1B	--
calcium	144,000	141,000	127,000	135JB
chromium	5B	--	--	--
copper	6.6B	--	6.1B	--
iron	32.1B	43.6B	--	--
lead	2.5JBW	2.2JB	--	--
magnesium	48,800	48,200	41,200	--
manganese	11.8JB	12.3JB	12JB	--
nickel	6.4B	--	--	--
potassium	5,470	5,370	5,330	--

Table 4-2 (Cont.)

Sample Collection Information and Parameters	PW1	Sample Number		Blank
		Duplicate	PW2	
selenium	2JBW	1.2JBW	1JBW	--
silver	--	4.6B	4.7B	--
sodium	48,500	46,900	49,200	--
vanadium	3.7B	--	--	--
zinc	60.9J	87.1J	126J	20.1J

-- Not detected.



Table 4-2 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1990.

## 5. DISCUSSION OF MIGRATION PATHWAYS

### 5.1 INTRODUCTION

This section discusses data and information that apply to potential migration pathways and targets of TCL compounds and/or TAL analytes that may be attributable to the Bemis Company, Inc., site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

### 5.2 GROUNDWATER

TAL analytes and TCL compounds were detected in groundwater samples collected from process wells on-site. These cannot be attributed to the Bemis Company, Inc., site because only a limited number of adequate sampling points were available to aid in determining the source of the analytes and compounds detected in the groundwater. Other industries are located in the area and could be potential sources of groundwater contamination.

A potential does exist for TAL analytes and TCL compounds to migrate from the site to groundwater in the vicinity of the site. This potential is based on the following information:

- TAL analytes and TCL compounds were detected in on-site soil samples;
- Fly ash has been landfilled in a canal with no liner;
- On-site process wells showed contamination with TAL analytes and TCL compounds; and

- Local geology indicates an area of unconsolidated, glacially derived deposits of sand and gravel at the site.

The aquifer of concern in the area is the Sankoty Sand Member, named for the Sankoty water-well field along the Illinois River on the north side of Peoria. The member consists of well-sorted, medium- and coarse-grained sand, locally as much as 300 feet thick, overlying Paleozoic rocks. It is overlain by tills of the Banner Formation except where they have been removed by erosion (Illinois State Geological Survey [ISGS] 1975).

The direction of groundwater flow in the vicinity of the site is not documented, but is believed to be toward the Illinois River. According to Randy Pankowitz of the Illinois American Water Company, 14 municipal wells (ranging in depth from 90 to 160 feet) serve the 124,160 citizens of Peoria (U.S. Bureau of the Census 1982). All wells draw from the Sankoty Sand Member (Illinois State Water Survey [ISWS] 1988). Peoria Heights has its own wells, which also draw from the Sankoty Sand Member. A well log representative of the area is provided in Appendix E. The nearest drinking water well to the Bemis Company, Inc., site is believed to be a municipal well located approximately 2,500 feet north of the site. Other municipal wells are located approximately 3 1/2 miles north of the site and 4 miles southwest of the site.

The potential target population for groundwater contamination includes approximately 131,613 persons within the 3-mile radius and on the west side of the Illinois River who are served by municipal wells finished in the aquifer of concern. Also included are persons residing outside the 3-mile radius served by municipal wells located inside the 3-mile radius.

### 5.3 SURFACE WATER

TAL analytes and TCL compounds were detected in sediment samples collected from the Illinois River. These substances cannot be attributed to the Bemis Company, Inc., site because levels of contaminants detected in downstream sediment samples were not substantially greater than the levels detected in the background sediment sample.

A potential does exist for TAL analytes and TCL compounds to migrate from the site to the Illinois River. This potential is based on the following information:

- TCL compounds and TAL analytes were detected in on-site soil samples;
- The Illinois River is adjacent to the site;
- Site drainage appears to be toward the Illinois River; and
- The site has been partially flooded by the Illinois River in the past.

The city of Peoria uses the Illinois River as a source for a portion of its drinking water. The intake is located upstream of the Bemis Company, Inc., site, north of the McClugage Bridge, approximately 2,500 feet north of the site (ISWS 1988). The population served by the Peoria Water System is approximately 131,613. This figure was obtained by adding the populations of Peoria and Peoria Heights.

The Illinois River is also used for recreational purposes including fishing and boating in the vicinity of the Bemis Company, Inc., site (Thompson 1987).

#### 5.4 AIR

A release of TCL compounds and/or TAL analytes to the air was not documented during the reconnaissance inspection of the Bemis Company, Inc., site. During the SSI, FIT site-entry equipment (OVA 128 and explosimeter) did not detect concentrations above background levels on-site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

A release of TCL compounds and/or TAL analytes to the air is unlikely because Bemis Company no longer uses a coal-fired boiler. Grass, which covers a large portion of the site, makes it unlikely that windblown contaminants will leave the site.

However, a potential does exist for TAL analytes and/or TCL compounds to be carried off-site via particulates from the fly ash pile on-site, if the fly ash contains TAL analytes or TCL compounds. The fly ash pile is not completely vegetated and could release particulates when dry, dusty conditions prevail.

The potential target population for a release to air is 84,922. Planimeter readings were used to calculate the portions of Peoria, Peoria Heights, and East Peoria within the 4-mile radius. Outside municipal boundaries, house counts were multiplied by the Peoria County 1980 Census average of 2.65 persons per household and the Tazewell County 1980 Census average of 2.82 persons per household (U.S. Bureau of the Census 1982).

#### 5.5 FIRE AND EXPLOSION

During the FIT reconnaissance inspection of the Bemis Company, Inc., site, no evidence of fire or explosive conditions was observed. FIT site-entry instruments did not detect levels above background concentrations (E & E 1987).

A contact at the Peoria Fire Department stated that the department has responded to several calls at the Bemis Company, Inc., site in the past, most recently, approximately 3 years ago. It is unlikely that any of the fires involved hazardous substances.

#### 5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, and an interview with Bemis Company and Ivex representatives, no documentation exists of an incident of direct contact with TCL compounds or TAL analytes at this site.

It is unlikely that the public could come into direct contact with TCL compounds or TAL analytes detected at this site because the perimeter of the site property is almost completely fenced and no evidence of casual site use was observed during the FIT SSI.

The population within a 1-mile radius of the site is approximately 8,015. This estimate was obtained using the United States Geological Survey (USGS) topographic map of the area (USGS 1979). Planimeter

readings were used to calculate the portion of Peoria within the 1-mile radius.

## 6. BIBLIOGRAPHY

Bemis Company, Inc., vs. Illinois Environmental Protection Agency,  
December 16, 1982, Order of the Illinois Pollution Control Board,  
re: Permit Appeal.

E & E, 1987, Quality Assurance Project Plan Region V FIT Conducted Site  
Inspections, Chicago, Illinois.

ISGS, 1975, Handbook of Illinois Stratigraphy, Bulletin 95.

ISWS, 1988, Public Ground Water Supplies in Peoria County, Bulletin 60.

Jones, Dorothy L., November 12, 1981, IEPA, RCRA Inspection Report, re:  
Site Inspection of Bemis Company, Inc.

Miller, Rolla, March 27, 1989, Plant Engineer, Bemis Company, Inc.,  
interview, conducted by Daniel Sullivan of E & E.

Rohman, Larry, February 18, 1986, Vice President of Manufacturing, Bemis  
Company, Inc., letter to IEPA, re: Transfer of Permits.

\_\_\_\_\_, March 27, 1989, Manager of Engineering, Ivex of Peoria,  
Inc., interview, conducted by Daniel Sullivan of E & E.

Thompson, Jay, December 2, 1987, Engineer, East Peoria Department of Public Works, telephone conversation, contacted by Ronnie Galmore of E & E.

Toberman, D., June 29, 1973, IEPA, memorandum to C. E. Clark and Division of Air Pollution Control, re: Site Inspection of Bemis Company, Inc.

U.S. Bureau of the Census, 1982, 1980 Census of Population, Volume I, Characteristics of the Population, Illinois.

U.S. EPA, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

USGS, 1979, Peoria East, Illinois Quadrangle, 7.5 Minute Series: 1:24,000.

3582:7



**APPENDIX A**

**SITE 4-MILE RADIUS MAP**

# SDMS US EPA Region V

## Imagery Insert Form

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Appendix A – site 4-mile radius map

Document is available at the EPA Region 5 Records Center.

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**APPENDIX B**

**U.S. EPA FORM 2070-13**



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION  
01 STATE IL 02 SITE NUMBER D006215727

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) BEMIS COMPANY, INC.  
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER FOOT OF SLOAN STREET (P.O. Box 568)  
03 CITY PEORIA  
04 STATE IL 05 ZIP CODE 06 COUNTY PEORIA  
07 COUNTY CODE 143 08 CONG DIST 18  
09 COORDINATES  
LATITUDE 40° 43' 05.6" LONGITUDE 089° 33' 24.7"  
10 TYPE OF OWNERSHIP (Check one)  
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL  
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 3, 28, 89  
MONTH DAY YEAR  
02 SITE STATUS  
☒ ACTIVE  
☐ INACTIVE  
03 YEARS OF OPERATION  
~ 1910 PRESENT  
BEGINNING YEAR ENDING YEAR  
04 AGENCY PERFORMING INSPECTION (Check all that apply)  
☐ A. EPA ☒ B. EPA CONTRACTOR ECOLOGY AND ENVIRONMENT ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR  
(Name of firm)  
☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER  
(Name of firm) (Specify)

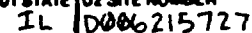
05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
DANIEL SULLIVAN	CHEMICAL ENGINEER	E + E	(312) 663-9415
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
DEBORAH BARRETT	GEOLOGIST	E + E	(312) 663-9415
RONNIE GALMORE	TECHNICIAN	E + E	(312) 663-9415
STAN SENDER	WATER RESOURCE MGR.	E + E	(312) 663-9415
KURT SIMS	EARTH SCIENTIST	E + E	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
ROLLA MILLER	PLANT ENGINEER	BEMIS Co., Inc. P.O. Box 568 PEORIA, IL 61651	(309) 682-5406
LAWRENCE J. ROHMAN	MANAGER OF ENGINEERING	IVEX OF PEORIA, Inc. P.O. Box 1820 PEORIA, IL 61603	(309) 686-3830
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)  
☒ PERMISSION  
☐ WARRANT  
18 TIME OF INSPECTION 9:00  
19 WEATHER CONDITIONS  
AM CLOUDY, ~68°F WINDS FROM SOUTH ~10-15 MPH  
PM PARTLY SUNNY, ~70°F WINDS FROM SOUTH ~10-15 MPH

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO		
THOMAS CRAUSE	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	(217) 782-9848		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO	08 DATE
DANIEL SULLIVAN	U.S. EPA	ECOLOGY + ENVIRONMENT	(312) 663-9415	7, 19, 89 MONTH DAY YEAR



☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE

## EPA FORM 2070-13 (7-81)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~131,613 04 NARRATIVE DESCRIPTION

SEE SECTION 5.2

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 8015 04 NARRATIVE DESCRIPTION

SEE SECTION 5.3

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 84,922 04 NARRATIVE DESCRIPTION

SEE SECTION 5.4

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 8015 04 NARRATIVE DESCRIPTION

PEORIA FIRE DEPARTMENT HAS RESPONDED TO SEVERAL CALLS AT THE BEMIS COMPANY, INC. SITE, THE LATEST APPROXIMATELY THREE YEARS AGO.

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 8015 04 NARRATIVE DESCRIPTION

SEE SECTION 5.6

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 3-28-89) ☐ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: ~47.4 04 NARRATIVE DESCRIPTION

TCL COMPOUNDS AND TAL ANALYTES DETECTED IN ON-SITE SOIL SAMPLES.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~131,613 04 NARRATIVE DESCRIPTION

SEE SECTION 5.2.

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: ~255 04 NARRATIVE DESCRIPTION

POTENTIAL EXISTS FOR WORKERS TO BE EXPOSED TO TCL COMPOUNDS AND TAL ANALYTES DETECTED ON-SITE.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: ~131,613 04 NARRATIVE DESCRIPTION

SEE SECTIONS 5.2 - 5.6.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 3-28-89)

☐ POTENTIAL ☐ ALLEGED

STAINED GRASS OBSERVED ON BEAMIS' PROPERTY.

01 ☒ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL ☐ ALLEGED

POTENTIAL DAMAGE TO FISH IN THE ILLINOIS RIVER

01 ☒ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL ☐ ALLEGED

POTENTIAL DAMAGE TO FISH IN THE ILLINOIS RIVER.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES  
(Spills, Runoff, Standing Liquids, Leaking Drums)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

TCL COMPOUNDS AND TAL ANALYTES DETECTED IN ON-SITE SOIL SAMPLES.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL ☐ ALLEGED

NONE OBSERVED

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL ☐ ALLEGED

WASTEWATER FROM IVEX IS DISCHARGED TO THE PEORIA SEWER SYSTEM AND MONITORED BY THE PEORIA SANITARY DISTRICT.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL ☐ ALLEGED

NONE WAS OBSERVED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NONE WAS NOTED

III. TOTAL POPULATION POTENTIALLY AFFECTED: 131316

IV. COMMENTS

MUNICIPAL WELLS ARE PROBABLY UPGRADIENT.

V. SOURCES OF INFORMATION (See specific references e.g., state files, sample analysis, reports)

STATE (IEPA) FILES.  
ECOLOGY AND ENVIRONMENT FILES, REGION IV.  
SSI CONDUCTED 3-28-89.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A NPDES	IL0035611	9-26-84	7-31-89	PERMIT TO DISCHARGE NON-CONTACT COOLING WATER TO THE ILLINOIS RIVER.
<input type="checkbox"/> B UIC				
<input type="checkbox"/> C AIR				
<input type="checkbox"/> D RCRA				
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify)	143065AAR	UNKNOWN	→	FUEL OIL TANK PERMIT
<input type="checkbox"/> H. LOCAL (Specify)				
<input checked="" type="checkbox"/> I. OTHER (Specify)	73010712	UNKNOWN	→	STATE OF ILLINOIS BOILER OPERATING PERMIT
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B. PILES	UNKNOWN		<input type="checkbox"/> B. UNDERGROUND INJECTION	~ 10
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	UNKNOWN		<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

SEE SECTION 2.3

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE      ☐ B. MODERATE      ☒ C. INADEQUATE, POOR      ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DUNGS, LINERS, BARRIERS, ETC.

SOME STAINED GROUND OBSERVED WHERE BARRELS ARE STORED.  
DIKE OBSERVED NEAR ILLINOIS RIVER, BUT HAS NOT PREVENTED FLOOD WATER FROM ENTERING THE SITE.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

SITE IS FENCED.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE (IEPA) FILES.  
ECOLOGY AND ENVIRONMENT FILES, REGION IV.  
SSI CONDUCTED 3-28-89.





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY  
(Check as applicable)

SURFACE WELL  
COMMUNITY A. ☒ B. ☒  
NON-COMMUNITY C. ☐ D. ☐

02 STATUS

ENDANGERED AFFECTED MONITORED  
A. ☐ B. ☐ C. ☒  
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE  
(INTAKES, AND WELL)

A. ~2500 FEET  
B. \_\_\_\_\_ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING  
(Other sources available)  
COMMERCIAL, INDUSTRIAL, IRRIGATION  
(No other water source available)  
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION  
(Limited other source available)  
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~131316

03 DISTANCE TO NEAREST DRINKING WATER WELL ~2500 FEET  
(mi)

04 DEPTH TO GROUNDWATER

~35 (ft)

05 DIRECTION OF GROUNDWATER FLOW

EAST

06 DEPTH TO AQUIFER  
OF CONCERN

~35 (ft)

07 POTENTIAL YIELD  
OF AQUIFER

UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

PEORIA HAS 14 WELLS WHICH DRAW FROM THE SANKOTY SAND MEMBER. PEORIA HEIGHTS ALSO HAS WELLS WHICH DRAW FROM THE SANKOTY SAND MEMBER.

10 RECHARGE AREA

☒ YES  
☐ NO

COMMENTS  
PRECIPITATION  
INFILTRATION

11 DISCHARGE AREA

☐ YES  
☒ NO

COMMENTS  
POSSIBLE DISCHARGE TO  
ILLINOIS RIVER

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

ILLINOIS RIVER

AFFECTED

DISTANCE TO SITE

ADJACENT TO SITE

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE  
A. 8015  
NO. OF PERSONS

TWO (2) MILES OF SITE  
B. 24872  
NO. OF PERSONS

THREE (3) MILES OF SITE  
C. 50201  
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

~150 FEET  
(mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~8883

04 DISTANCE TO NEAREST OFF-SITE BUILDING

~150 FEET  
(mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

RECREATIONAL AREAS EAST AND SOUTH OF SITE.

RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL AREAS NORTH AND WEST OF SITE.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6}$  -  $10^{-8}$  cm/sec ☐ B.  $10^{-4}$  -  $10^{-6}$  cm/sec ☒ C.  $10^{-4}$  -  $10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than  $10^{-6}$  cm/sec)  
☒ B. RELATIVELY IMPERMEABLE (NEGLECTIBLE) ( $10^{-6}$  -  $10^{-8}$  cm/sec)  
☐ C. RELATIVELY PERMEABLE ( $10^{-2}$  -  $10^{-6}$  cm/sec)  
☐ D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

~300 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

UNKNOWN (ft)

05 SOIL pH

UNKNOWN

06 NET PRECIPITATION

2.52 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.60 (in)

08 SLOPE

SITE SLOPE

<3 %

DIRECTION OF SITE SLOPE

EAST

TERRAIN AVERAGE SLOPE

%

09 FLOOD POTENTIAL

SITE IS IN UNKNOWN YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. N/A (mi)

OTHER

B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

POSSIBLY ADJACENT TO SITE (mi)

ENDANGERED SPECIES: LAMPUS HIGGINSI LAMPUS ORBICULATA

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

A. ~150 FEET (mi)

B. ~500 FEET (mi)

C. N/A (mi)

D. N/A (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE APPENDIX A.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ECOLOGY AND ENVIRONMENT FILES - REGION II.  
USGS TOPOGRAPHIC MAP, PEORIA EAST QUADRANGLE.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - SAMPLE AND FIELD INFORMATION

I IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	TAL ENSECO/ROCKY MTN. ANALYTICAL ARVADA, COLORADO TCL SOUTHWEST LABS OF OKLAHOMA BROKEN ARROW, OKLAHOMA	IN
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	5	TAL ENSECO/ROCKY MTN. ANALYTICAL ARVADA, COLORADO TCL ENVIRONMENTAL CONTROL TECH. ANN ARBOR, MICHIGAN	IN
VEGETATION		1	
OTHER (SEDIMENT)	3	SAME LABS AS SOIL SAMPLES	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA 128	NO READINGS ABOVE BACKGROUND
RADIATION MINI ALERT	NO READINGS ABOVE BACKGROUND
DRAEGER PUMP	NO READINGS ABOVE BACKGROUND
COMBO METER	NO READINGS ABOVE BACKGROUND

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>ECOLOGY AND ENVIRONMENT, CHICAGO</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>ECOLOGY AND ENVIRONMENT, CHICAGO</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

N/A

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

ECOLOGY AND ENVIRONMENT FILES, REGION II.  
SSI CONDUCTED 3-28-89



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. CURRENT OWNER(S)

01 NAME 02 D+B NUMBER  
BEMIS COMPANY, INC.

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE  
P.O. Box 568

05 CITY 06 STATE 07 ZIP CODE  
PEORIA IL 61651

01 NAME 02 D+B NUMBER  
IVEX OF PEORIA, INC.

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE  
P.O. Box 1820

05 CITY 06 STATE 07 ZIP CODE  
PEORIA IL 61603

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME 02 D+B NUMBER  
PETRATEX PAPER CO.

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE  
P.O. Box 1820

05 CITY 06 STATE 07 ZIP CODE  
PEORIA IL 61656

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

PARENT COMPANY (if applicable)

08 NAME 09 D+B NUMBER  
BEMIS

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE  
625 MARQUETTE AVENUE

12 CITY 13 STATE 14 ZIP CODE  
MINNEAPOLIS MN 55402

08 NAME 09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

12 CITY 13 STATE 14 ZIP CODE

08 NAME 09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

12 CITY 13 STATE 14 ZIP CODE

08 NAME 09 D+B NUMBER

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

12 CITY 13 STATE 14 ZIP CODE

IV. REALTY OWNER(S) (if applicable, list most recent first)

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

ECOLOGY AND ENVIRONMENT FILES, REGION V.  
SSI CONDUCTED 3-28-89.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. CURRENT OPERATOR (Provide if different from owner)					OPERATOR'S PARENT COMPANY (if applicable)				
01 NAME SAME AS OWNERS			02 D+B NUMBER		10 NAME			11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER							
III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)					PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)				
01 NAME			02 D+B NUMBER		10 NAME			11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD							
01 NAME			02 D+B NUMBER		10 NAME			11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD							
01 NAME			02 D+B NUMBER		10 NAME			11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD							
01 NAME			02 D+B NUMBER		10 NAME			11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		14 CITY		15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD							
IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)									
ECOLOGY AND ENVIRONMENT FILES, REGION V. SSI CONDUCTED 3-28-89.									



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. ON-SITE GENERATOR

01 NAME 02 D+B NUMBER  
BEMIS COMPANY, INC.  
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE  
P.O. Box 568  
05 CITY 06 STATE 07 ZIP CODE  
PEORIA IL 61651

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ECOLOGY AND ENVIRONMENT FILES, REGION V.  
SSI CONDUCTED 3-28-89.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
IL D006215727

II. PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> S. CAPPING/COVERING 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	N/A	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

ECOTOLOGY AND ENVIRONMENT FILES, REGION V,





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D006215727

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

ECOLOGY AND ENVIRONMENT FILES, REGION IV

**APPENDIX C**

**FIT SITE PHOTOGRAPHS**

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 1 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL0585SADATE: 3-28-89TIME: 13:00DIRECTION OF  
PHOTOGRAPH:  
EAST-NEWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
SIDESCRIPTION: CLOSE - UP OF SOIL SAMPLE SI.DATE: 3-28-89TIME: 13:00DIRECTION OF  
PHOTOGRAPH:  
NEWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
SIDESCRIPTION: PERSPECTIVE OF SOIL SAMPLE SI.



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 2 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL0585SADATE: 3-28-89TIME: 13:10DIRECTION OF  
PHOTOGRAPH:  
EAST-SEWEATHER  
CONDITIONS:  
PARTLY SUNNY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S2DESCRIPTION: CLOSE-UP OF SOIL SAMPLE S2.DATE: 3-28-89TIME: 13:10DIRECTION OF  
PHOTOGRAPH:  
EAST-SEWEATHER  
CONDITIONS:  
PARTLY SUNNY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S2DESCRIPTION: PERSPECTIVE OF SOIL SAMPLE S2.

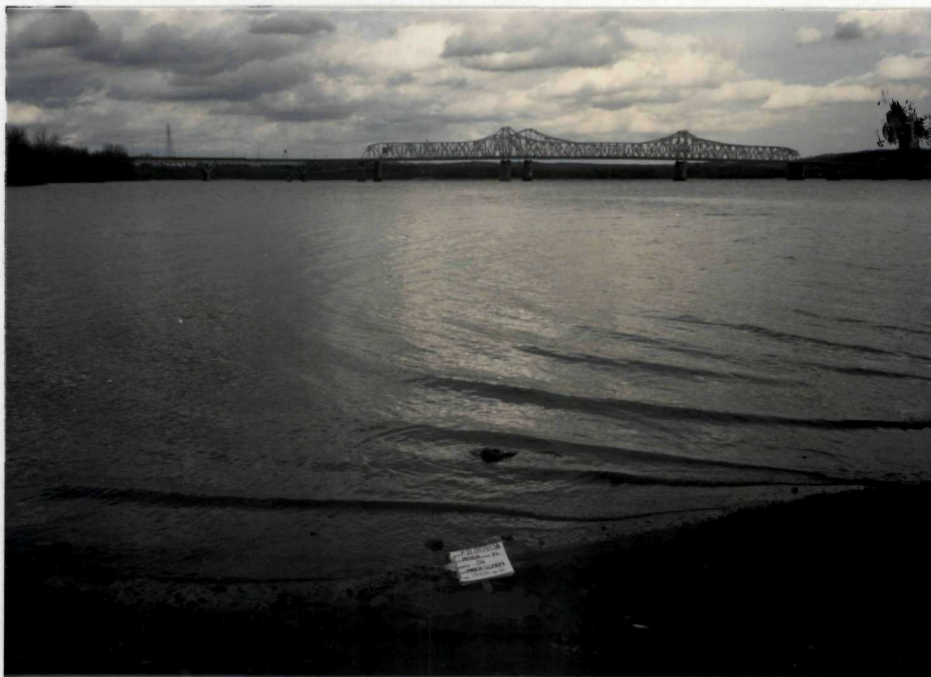


## FIELD PHOTOGRAPHY LOG SHEET

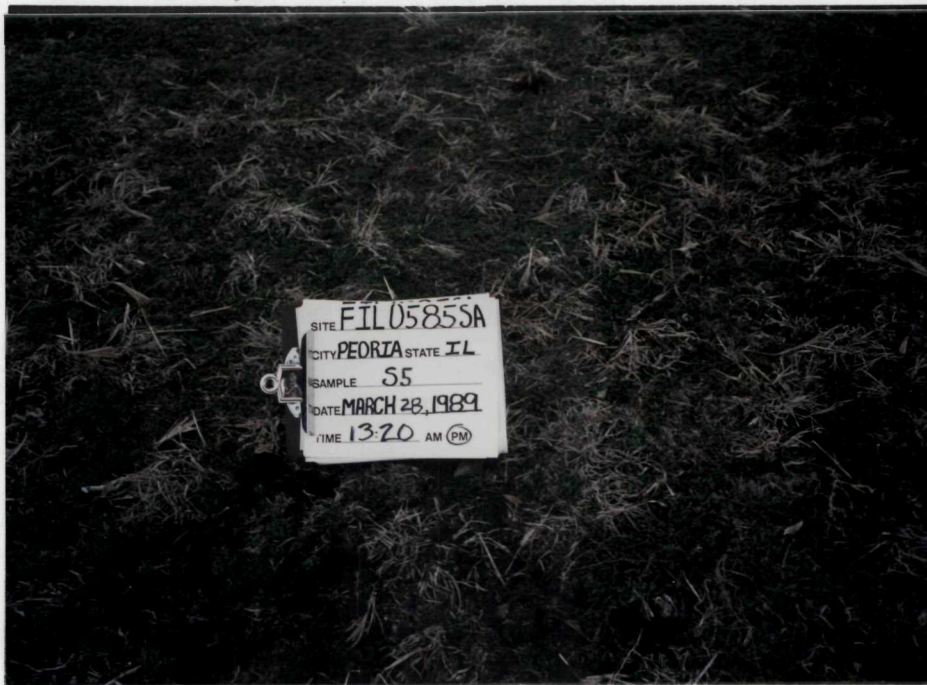
SITE NAME: BEMIS COMPANY, INC.PAGE 3 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL05855ADATE: 3-28-89TIME: 13:25DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY SUNNY  
~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S3DESCRIPTION: CLOSE-UP OF SOIL SAMPLE S3.DATE: 3-28-89TIME: 13:25DIRECTION OF  
PHOTOGRAPH:  
NORTH - NEWEATHER  
CONDITIONS:  
PARTLY SUNNY  
~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S3DESCRIPTION: PERSPECTIVE OF SOIL SAMPLE S3. FLY ASH  
PILE IS LOCATED ON RIGHT SIDE OF PHOTO.



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 4 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL0585SADATE: 3-28-89TIME: 13:00DIRECTION OF  
PHOTOGRAPH:  
NORTHEASTWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S4DESCRIPTION: CLOSE - UP OF SEDIMENT SAMPLE S4.DATE: 3-28-89TIME: 13:00DIRECTION OF  
PHOTOGRAPH:  
NORTHEASTWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S4DESCRIPTION: PERSPECTIVE OF SEDIMENT SAMPLE S4. THE  
McCLUGAGE BRIDGE IS SHOWN IN BACKGROUND.



SITE NAME: BEMIS COMPANY, INC.PAGE 5 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FILO585SADATE: 3-28-89TIME: 13:20DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S5DESCRIPTION: CLOSE-UP OF SOIL SAMPLE S5, COLLECTED AS  
A POTENTIAL BACKGROUND SOIL SAMPLE.DATE: 3-28-89TIME: 13:20DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S5DESCRIPTION: PERSPECTIVE OF SOIL SAMPLE S5.



SITE NAME: BEMIS COMPANY, INC.PAGE 6 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FILO5855ADATE: 3-28-89TIME: 13:30DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S6DESCRIPTION: CLOSE-UP OF SOIL SAMPLE S6.DATE: 3-28-89TIME: 13:30DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S6DESCRIPTION: PERSPECTIVE OF SOIL SAMPLE S6. DRUMS  
ARE STORED TO THE LEFT OF AREA SHOWN IN PHOTO.



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 7 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL0585SADATE: 3-28-89TIME: 14:25DIRECTION OF  
PHOTOGRAPH:EAST

WEATHER

CONDITIONS:

PARTLY SUNNY~ 70°F

PHOTOGRAPHED BY:

D. SULLIVAN

SAMPLE ID

(if applicable):

S7DESCRIPTION: CLOSE-UP OF SEDIMENT SAMPLE S7.DATE: 3-28-89TIME: 14:25DIRECTION OF  
PHOTOGRAPH:EAST

WEATHER

CONDITIONS:

PARTLY SUNNY~ 70°F

PHOTOGRAPHED BY:

D. SULLIVAN

SAMPLE ID

(if applicable):

S7DESCRIPTION: PERSPECTIVE OF SEDIMENT SAMPLE S7.



SITE NAME: BEMIS COMPANY, INC.PAGE 8 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL0585SADATE: 3-28-89TIME: 14:45DIRECTION OF  
PHOTOGRAPH:  
EASTWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S8DESCRIPTION: CLOSE-UP OF SEDIMENT SAMPLE S8.DATE: 3-28-89TIME: 14:45DIRECTION OF  
PHOTOGRAPH:  
NORTHEASTWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
S8DESCRIPTION: PERSPECTIVE OF SEDIMENT SAMPLE S8.



SITE NAME: BEMIS COMPANY, INC.PAGE 9 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL05855ADATE: 3-28-89TIME: 13:35DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY SUNNY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
PW1

DESCRIPTION:

CLOSE-UP OF PRODUCTION WELL SAMPLE PW1.DATE: 3-28-89TIME: 13:35DIRECTION OF  
PHOTOGRAPH:  
NORTHWEATHER  
CONDITIONS:  
PARTLY SUNNY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
PW1DESCRIPTION: PERSPECTIVE OF PRODUCTION WELL SAMPLE PW1.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.

PAGE 10 OF 18

U.S. EPA ID: ILD006215727 TDD: F05-8812-011

PAN: FILO5855A

DATE: 3-28-89

TIME: 12:30

DIRECTION OF  
PHOTOGRAPH:  
NORTH

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70°F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable):  
PW2



DESCRIPTION: CLOSE-UP OF PRODUCTION WELL SAMPLE PW2.

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
\_\_\_\_\_

WEATHER  
CONDITIONS:  
\_\_\_\_\_

PHOTOGRAPHED BY:  
\_\_\_\_\_

SAMPLE ID  
(if applicable):  
\_\_\_\_\_

DESCRIPTION: \_\_\_\_\_



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 11 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FILO5855ADATE: 3-28-89

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
WESTWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable): \_\_\_\_\_DESCRIPTION: AREA OF STAINED SOIL NEAR DRUM STORAGE. SOIL  
SAMPLE S6 WAS TAKEN FROM THIS AREA.DATE: 3-28-89

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
WESTWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70 °FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable): \_\_\_\_\_DESCRIPTION: DRUM STORAGE AREA. NOTE STAINED SOIL  
AT BOTTOM OF PHOTO. SOIL SAMPLE S6 WAS TAKEN  
FROM THIS AREA.



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 12 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FILO5855ADATE: 3-28-89

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:NORTHWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):DESCRIPTION: PERSPECTIVE OF DIKE SEPARATING BEMIS'  
PROPERTY FROM ILLINOIS RIVER.DATE: 3-28-89

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
WEST-SWWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):DESCRIPTION: BARREL FOUND IN TREE LOCATED ON BEMIS'  
PROPERTY BETWEEN THE DIKE AND ILLINOIS RIVER.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.

PAGE 13 OF 18

U.S. EPA ID: ILD006215727 TDD: F05-8812-011

PAN: FILO5855A

DATE: 3-28-89

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
NORTH

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70 °F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable): \_\_\_\_\_



DESCRIPTION: PERSPECTIVE OF BEMIS AND IVEX FACILITIES TAKEN  
FROM NEAR THE SOUTHERN BOUNDARY.

DATE: 3-28-89

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
NORTH

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70 °F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable): \_\_\_\_\_



DESCRIPTION: PERSPECTIVE OF BEMIS FACILITY TAKEN FROM  
NEAR THE SOUTHERN BOUNDARY.



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 14 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FIL0585SADATE: 3-28-89TIME: 10:30DIRECTION OF  
PHOTOGRAPH:  
WEST - NWWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):  
\_\_\_\_\_DESCRIPTION: BARRELS OBSERVED ON SOUTHEAST SECTION OF  
IVE X PROPERTY,

DATE: \_\_\_\_\_

TIME: \_\_\_\_\_

DIRECTION OF  
PHOTOGRAPH:  
\_\_\_\_\_WEATHER  
CONDITIONS:  
\_\_\_\_\_  
\_\_\_\_\_PHOTOGRAPHED BY:  
\_\_\_\_\_SAMPLE ID  
(if applicable):  
\_\_\_\_\_DESCRIPTION: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.

PAGE 15 OF 18

U.S. EPA ID: ILD006215727 TDD: F05-8812-011

PAN: FILO5855A

DATE: 3-28-89

TIME: 10:40

DIRECTION OF  
PHOTOGRAPH:

SOUTH - SE

WEATHER  
CONDITIONS:

PARTLY CLOUDY

~ 70 °F

PHOTOGRAPHED BY:

D. SULLIVAN

SAMPLE ID  
(if applicable):



DESCRIPTION: PERSPECTIVE OF IVEX PROPERTY SHOWING  
DEBRIS ALONG THE EASTERN EDGE OF THE FACILITY.

DATE: 3-28-89

TIME: 10:40

DIRECTION OF  
PHOTOGRAPH:

WEST

WEATHER  
CONDITIONS:

PARTLY CLOUDY

~ 70 °F

PHOTOGRAPHED BY:

D. SULLIVAN

SAMPLE ID  
(if applicable):



DESCRIPTION: PERSPECTIVE OF IVEX PROPERTY SHOWING  
VARIOUS DEBRIS. NOTE OIL TANK IN BACKGROUND.



## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.PAGE 16 OF 18U.S. EPA ID: ILD006215727 TDD: F05-8812-011PAN: FILO585SADATE: 3-28-89TIME: 10:45DIRECTION OF  
PHOTOGRAPH:  
NORTH - NEWEATHER  
CONDITIONS:  
PARTLY CLOUDY~ 70°FPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):DESCRIPTION: PERSPECTIVE OF COOLING CANAL FROM THE  
SOUTH.DATE: 3-28-89TIME: 10:50DIRECTION OF  
PHOTOGRAPH:  
SOUTH - SWWEATHER  
CONDITIONS:  
PARTLY CLOUDYPHOTOGRAPHED BY:  
D. SULLIVANSAMPLE ID  
(if applicable):DESCRIPTION: PERSPECTIVE OF COOLING CANAL FROM THE  
NORTH.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.

PAGE 17 OF 18

U.S. EPA ID: ILD006215727 TDD: F05-8812-011

PAN: FIL05855A

DATE: 3-28-89

TIME: 11:00

DIRECTION OF  
PHOTOGRAPH:  
SOUTHEAST

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70°F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable):



DESCRIPTION: PERSPECTIVE OF FLY ASH PILE.

DATE: 3-28-89

TIME:

DIRECTION OF  
PHOTOGRAPH:  
NORTHWEST

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70°F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable):



DESCRIPTION: PERSPECTIVE OF OIL TANK.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: BEMIS COMPANY, INC.

PAGE 18 OF 18

U.S. EPA ID: ILD006215727 TDD: F05-8812-011

PAN: FIL05855A

DATE: 3-28-89

TIME: 11:10

DIRECTION OF  
PHOTOGRAPH:  
EAST

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70°F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable):  
\_\_\_\_\_



DESCRIPTION: PERSPECTIVE OF BARRELS OF ACID LOCATED ON  
IVEX PROPERTY.

DATE: 3-28-89

TIME: 11:15

DIRECTION OF  
PHOTOGRAPH:  
WEST

WEATHER  
CONDITIONS:  
PARTLY CLOUDY

~ 70°F

PHOTOGRAPHED BY:  
D. SULLIVAN

SAMPLE ID  
(if applicable):  
\_\_\_\_\_



DESCRIPTION: PERSPECTIVE OF IVEX COAL BUNKER.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND  
TARGET ANALYTE LIST  
QUANTITATION/DETECTION LIMITS

**ADDENDUM A**

**ROUTINE ANALYTICAL SERVICES  
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS**

Contract Laboratory Program  
Target Compound List  
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A  
Contract Laboratory Program  
Target Compound List  
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330



**Table A**  
**Contract Laboratory Program**  
**Target Compound List**  
**Semivolatiles Quantitation Limits**

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A  
Contract Laboratory Program  
Target Compound List  
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	SOIL	
		WATER	SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A  
Contract Laboratory Program  
Target Analyte List  
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	<del>SOIL</del>	SEDIMENT SLUDGE
		WATER	
Aluminum	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Mercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

APPENDIX E

A WELL LOG OF THE AREA OF THE SITE

Well No. PEORIA-35.3g WL1  
Owner's No. "A"  
Date of Installation 7-12-78  
Location 150' NORTH OF WEST END  
CLUGAGE BRIDGE IN  
PEORIA, ILL. County PEORIA  
Section 35 Twp. No. 9N Range 8E  
Feet from Sec. Cor. 675'S, 475'E  
Owner DEPT. OF TRANSPORTATION Address SPRINGFIELD, ILL.  
Driller CHRIS EBERT CO. Address WASHINGTON, ILL.  
Date drilled 7-12-78 Method CABLE TOOL  
Depth 65' Hole record  
Casing record  
7 of 12" Johnson SS. SLOT HOLE GET 53-65'; NO GRAVEL PACK  
Screen record NATURAL DEV.  
Log ON PA-M Drill cuttings SENT GCS Sample set no.  
Chief aquifer SG from 35' to 65' Other aquifer  
Land surface elev. 35.95' Topography RIVER VALLEY  
Nonpumping level 35.95' below measuring point on 7-19-78 at 10:00 AM  
(date)  
Pumping level 451 gpm for 24 hours on 7-20-78 at 10:00 AM  
(date) APPROX.  
Measuring point (MP) for above measurements TOP OF CASING: 3.8' ABOVE BRD. LEVEL  
Airline and measuring equipment SWS 4" DRIFICE TUBE; ELEC. DROPLINE; STEEL TAPE  
Pump and power 15 HP - DEEP WELL SUBMERSIBLE - 15 HP - 560 GPM CAPACITY -  
50' DIA. PUMP 8" - 2.5' - 12 HP TO TOP 53'  
COM. ELEC. 480 - 3 PHASE CALCO  
Use of water  
Water quality  
Analysis No. and date Temp. 56° AT 9:16 AM  
Data collected by E.E.H. Date 7-20-78  
Source of information  
Can well be used in pumping test? Are nearby observation  
wells available? Are pumping records available?  
Are water level records available?  
Remarks: WATER SAMPLE: APPROX. (3/4) hr PRIOR TO  
END OF 24 hr TEST.

TL:

- 0 - 1' COARSE GRAVEL & CLAY MIXED
- 1 - 13' YELLOW CLAY & BROWN GRAVEL
- 13 - 27' BROWN GRAVEL SOME SAND
- 27 - 52' BROWN GRAVEL VERY COARSE  
(WATER BEARING)
- 52 - 62' BROWN GRAVEL WITH SOME YELLOW  
CLAY BALLS (WATER BEARING)
- 62 - 65' BROWN GRAVEL VERY COARSE  
(WATER BEARING)
- 65 - GRAY SHALE

TD 65

COPIES TO

"SWS FILES ONLY" CH

NOTE: